

**EXAMPLE SCENARIO 11**

TABLE 9.2.RME  
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs  
REASONABLE MAXIMUM EXPOSURE  
The Dean Company

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Groundwater	Groundwater	Aquifer 1 - Tap Water	Bis(2-ethylhexyl)phthalate	4E-07	--	4E-07	--	8E-07	Liver	0.02	--	0.02	0.04		
			Chloroform	3E-07	--	4E-07	--	7E-07	Liver	0.06	--	0.08	0.1		
			Heptachlor	7E-04	--	3E-04	--	1E-03	Liver	4	--	1	5		
			Barium	--	--	--	--	--	Heart	0.4	--	--	0.4		
			Lead (1)	--	--	--	--	--	--	--	--	--	--		
			Manganese	--	--	--	--	--	Central Nervous System	40	--	--	40		
			Uranium	--	--	--	--	--	Kidney	8	--	--	8		
			Chemical Total	7E-04	--	3E-04	--	1E-03		52	--	1	53		
			Uranium 238	1E-06	--	--	--	1E-06							
			Radium 226	3E-06	--	--	--	3E-06							
			Radionuclide Total	4E-06	--	--	--	4E-06							
Exposure Point Total								1E-03					53		
Exposure Medium Total								1E-03					53		
Groundwater Total								1E-03					53		

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				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	Soil at Site 1	4,4'-DDD	1E-07	--	--	--	1E-07	--	--	--	--	--		
			4,4'-DDE	3E-06	--	--	--	3E-06	--	--	--	--	--		
			4,4'-DDT	1E-05	--	9E-07	--	1E-05	Liver	0.7	--	0.06	0.8		
			Aluminum	--	--	--	--	--	Central Nervous System	0.1	--	--	0.1		
			Lead (1)	--	--	--	--	--	--	--	--	--	--		
			Manganese	--	--	--	--	--	Central Nervous System	0.02	--	--	0.02		
			Uranium	--	--	--	--	--	Kidney	3	--	--	3		
			Chemical Total	1E-05	--	9E-07	--	1E-05		4	--	0.06	4		
			Uranium 238	9E-08	--	--	6E-07	7E-07							
			Radium 226	5E-07	--	--	9E-05	9E-05							
			Radionuclide Total	6E-07	--	--	9E-05	9E-05							
Exposure Point Total								1E-04					4		
Exposure Medium Total								1E-04					4		
Soil Total								1E-04					4		
Receptor Total								1E-03					57		

Total Risk Across All Media

1E-03

Total Hazard Across All Media

57

(1) Lead is evaluated for the resident using the IEUBK model. See Risk Assessment text for discussion of results and appendix for the lead modeling run results.

Total Liver HI Across All Media =

Total Kidney HI Across All Media =

Total Central Nervous System HI Across All Media =

6

11

40